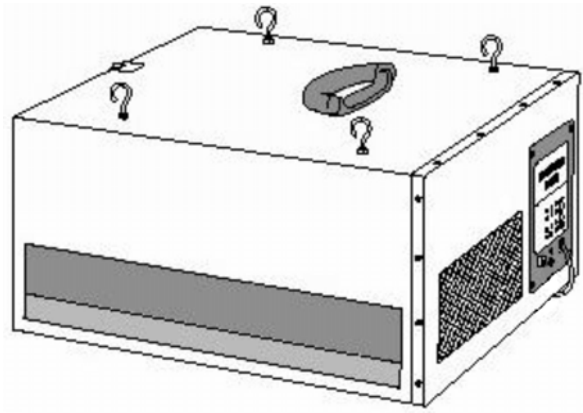




# Air Filtration System

**Model: 3410**



**Questions? Problems?**  
**Please call our customer help line:**

**(800) 232-1195** M-F 8-5 CST or  
by email:  
[techsupport@wenproducts.com](mailto:techsupport@wenproducts.com)

## Operation and Safety Instructions

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## **Technical data**

Air Filtration System

Model: 3410

Motor:

120 V, 60 Hz, 1A, 1/6HP

Air Flow Speeds:

300, 350, and 400 cfm

Filters:

1 micron inner/ 5 microns outer

Noise:

50-60 dB

Maximum remote control distance:

26'

Net weight:

31 lb

Part #	Description
90243-026	Inner Filter
90243-027	Outer Filter

## **General safety rules**

Safety is a combination of common sense, staying alert and knowing how the air filter works.

**SAVE THESE SAFETY INSTRUCTIONS.**



**WARNING:** To avoid mistakes that could cause serious injury, do not plug in the saw until the following steps have been read and understood.

1. **READ** and become familiar with this entire instruction manual. **LEARN** the tool's applications, limitations, and possible hazards.
2. **AVOID DANGEROUS CONDITIONS.** Do not use power tools in wet or damp areas or expose them to rain. Keep work areas well-lit.
3. **DO NOT** use power tools in the presence of flammable liquids or gases.
4. **ALWAYS** keep your work area clean, uncluttered, and well-lit. **DO NOT** work on floor surfaces that are slippery.
5. **KEEP BYSTANDERS AT A SAFE DISTANCE** from the work area, especially when the tool is operating. **NEVER** allow children or pets near the tool.
6. **DO NOT FORCE THE TOOL** to do a job for which it was not designed.
7. **DRESS FOR SAFETY.** Do not wear loose clothing, gloves, neckties, or jewelry (rings, watches, etc.) when operating the tool. Inappropriate clothing and items can get caught in moving parts and draw you in. **ALWAYS** wear non-slip footwear and tie back long hair.
8. **ALWAYS** remove the power cord plug from the electrical outlet when making adjustments, changing parts, cleaning, or working on the tool.
9. **KEEP GUARDS IN PLACE AND IN WORKING ORDER.**
10. **AVOID ACCIDENTAL START-UPS.** Make sure the power switch is in the OFF position before plugging in the power cord.
11. **NEVER LEAVE A RUNNING TOOL UNATTENDED.** Turn the power switch to OFF. Do not leave the tool until it has come to a complete stop.
12. **NEVER STAND ON A TOOL.** Serious injury could result if the tool tips or is accidentally hit. **DO NOT** store anything above or near the tool.
13. **MAINTAIN TOOLS PROPERLY.** **ALWAYS** keep tools clean and in good working order. Follow instructions for lubricating and changing accessories.

## **General safety rules (continued)**

14. DO NOT operate the tool if you are under the influence of drugs, alcohol, or medication that could affect your ability to use the tool properly.
15. USE SAFETY GOGGLES AT ALL TIMES—that comply with ANSI Z87.1. Normal safety glasses only have impact resistant lenses and are not designed for safety. Wear a face or dust mask when working in a dusty environment. Use ear protection, such as plugs or muffs, during extended periods of operation.



## **Specific safety rules for air filters**

1. To reduce the risk of injury, unplug the air filter from the power source before changing filters or servicing.
2. If mounting the air filter to the ceiling:
  - a. Make sure the bottom of the air filter is at least 7' above the floor.
  - b. Make sure the air filter is anchored to a building structure that is capable of supporting a minimum of 100 lbs.
  - c. Do not mount the air filter to non-structural elements such as dry wall, false ceiling panels, etc.
3. Position the air filter so that it is at least 3' from a corner and from any heating or cooling vents.
4. Do not use the air filter in environments that have volatile fumes or smoke. This air filter is designed and intended for the filtration of air borne wood dust only.
5. Do not expose the air filter to water or rain. Do not use in damp environments.
6. Do not duct a power tool or machine directly into the air filter.

## **Electrical information**

### **Grounding Instructions**

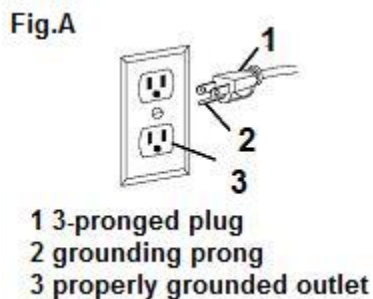
IN THE EVENT OF A MALFUNCTION OR BREAKDOWN, grounding provides the path of least resistance for electric current and reduces the risk of electric shock. This tool is equipped with an electric cord that has an equipment grounding conductor and a grounding plug. The plug **MUST** be plugged into a matching outlet that is properly installed and grounded in accordance with **ALL** local codes and ordinances.

**DO NOT MODIFY THE PLUG PROVIDED.** If it will not fit the outlet, have the proper outlet installed by an electrician.

**IMPROPER CONNECTION** of the equipment grounding conductor can result in electric shock. The conductor with the green insulation (with or without yellow stripes) is the equipment grounding conductor. If repair or replacement of the electric cord or plug is necessary, **DO NOT** connect the equipment grounding conductor to a live terminal.

**CHECK** with a licensed electrician or service personnel if you do not completely understand the grounding instructions, or if you are not sure if the tool is properly grounded.

**USE ONLY THREE-WIRE EXTENSION CORDS** that have 3-pronged plugs and outlets that accept the tool's plug as shown in Fig. A. Repair or replace a damaged or worn cord immediately.

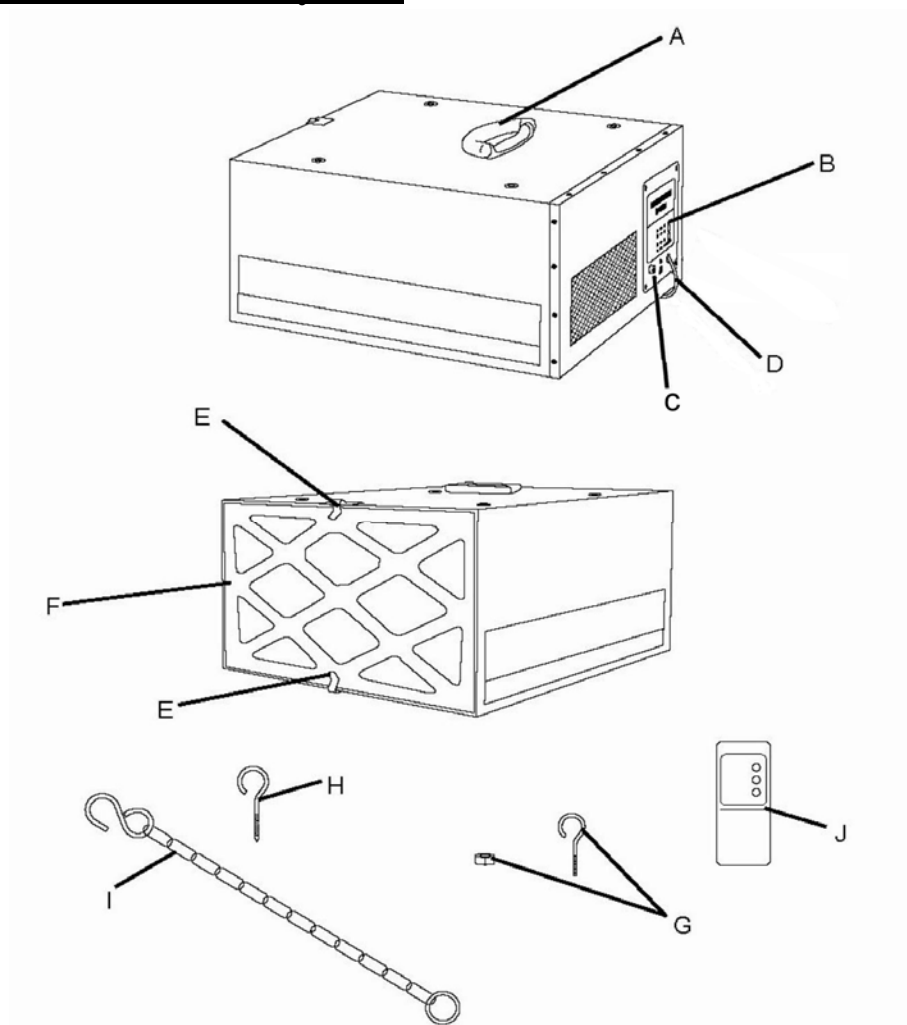


**CAUTION:** In all cases, make certain the outlet in question is properly grounded. If you are not sure if it is, have a licensed electrician check the outlet.



**WARNING:** This unit is for indoor use only. Do not expose to rain or use in damp location.

## **Know your air filtration system**



- |   |                        |   |                          |
|---|------------------------|---|--------------------------|
| A | Carrying handle        | F | Outer filter             |
| B | Control panel/receiver | G | Hangers and locknuts (4) |
| C | Fuse                   | H | Wood screw hooks (4)     |
| D | Power cord             | I | Chains (4)               |
| E | Filter lock clip       | J | Remote control           |

Not shown:

- 1-Inner filter (Assembled on the machine)
- 2-AA batteries

### **Unpacking**

Carefully unpack the air filter and all its parts. Do not discard the carton or any packaging until the air filter is completely assembled.

## **Assembly and adjustments**

The air filter is designed to circulate air and filter wood and other non-metallic dust. The unit requires only minimal assembly. However, it is important to consider how and where to place the unit. When selecting a site, make sure there is a suitable power source nearby. Do not use extension cords with the air filter.

### **Hanger placement (Fig. 1)**

1. Thread the locknuts (1) almost all the way up the hanger (2).
2. Thread a hanger into each of the four mounting holes (3) on the top of the air filter cabinet.
3. Tighten each locknut against the cabinet top. Hold the hangers so that they do not spin while tightening the locknut.

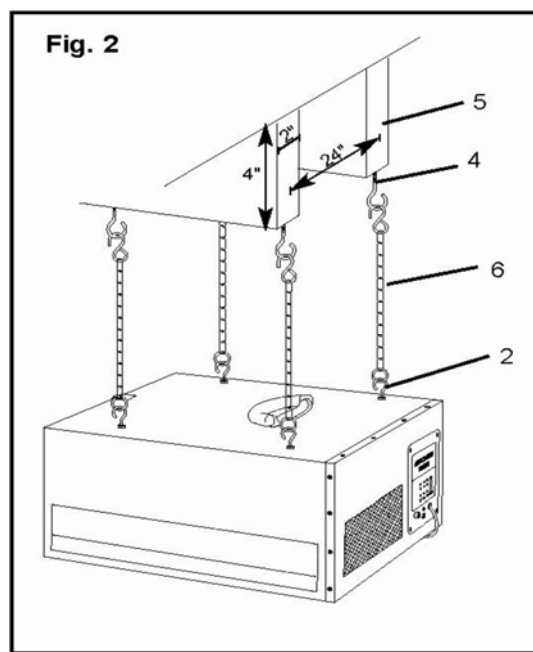
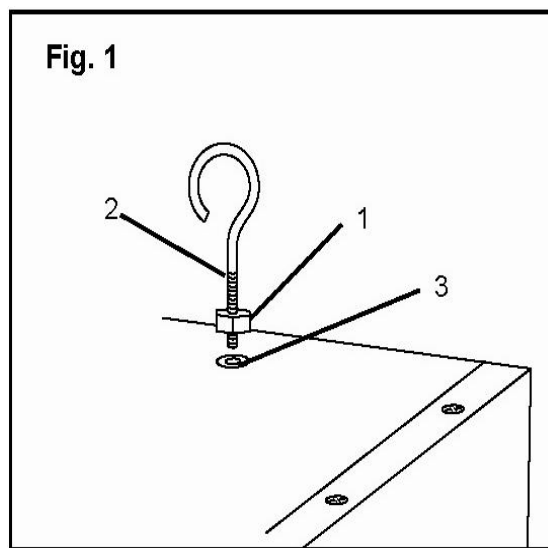
### **Ceiling placement (Fig.1 and 2)**

Make sure the unit will be situated at least 7' above the floor and at least 3' (1 m) away from a corner and from any heating or air vents.

1. Install the wood screw hooks (4) into the building support structure. Do not mount the air filter to non-structural surfaces such as dry wall or false ceiling grids.

The hooks are rated for this air filter, and can support a minimum of 100 lbs.

2. Place a chain (6) on each wood screw hook (4).
3. Attach the hangers (2) on each chain (6).
4. Make sure the unit is level horizontally, and is at least 7' above the floor. If it is not, remove the air filter and adjust the length of the chain as needed. Then remount the unit.
5. Plug the air filter power cord directly into a power source.





## **Operation**

The air filter can be operated directly using the control panel or with the remote control.

### **Turn on the air filter and speed setting (Fig. 3 and 4)**

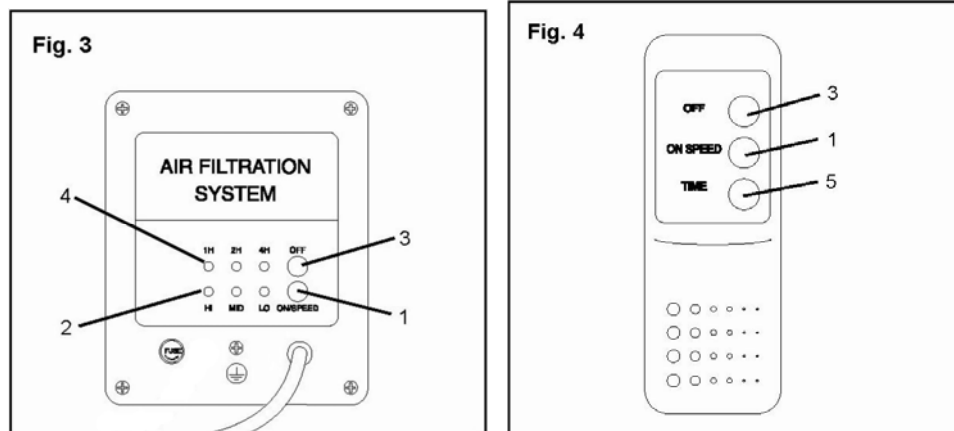
1. Plug the power cord into an appropriate power source.
2. Press the ON/Speed button (1) on the control panel or the remote control to power on the air filter. The air filter will be running at low speed. The LO LED will light, indicating that the unit has been worked at low speed.
3. Press the ON/Speed button (1) again to change the speed. The LEDs (2) next to the ON/speed button on the control panel indicate the selected speed-high, medium, or low.

### **Set the timer (Fig. 3 and 4)**

A timer allows you to operate the filter set the length of time (1, 2, 4 hours and clear the timer) that the air filter will operate before shutting off automatically. The air filter can be set the timer with the remote control only.

1. Press the TIME button (5) on the remote control to start the timer. The cycle is 1 hour, 2 hours, 4 hours and clear the timer.
2. Press the TIME button (5) on the remote control to set the timer. The LEDs (4) on the control panel indicate the amount of time selected.

Note: the unit will shut off automatically after the selected time interval elapses. When you choose clear the timer, the air filter will keep running until turning it off.



### **Turn off the air filter**

To turn off the air filter, press the OFF button on the control or on the remote control.

## **Maintenance**

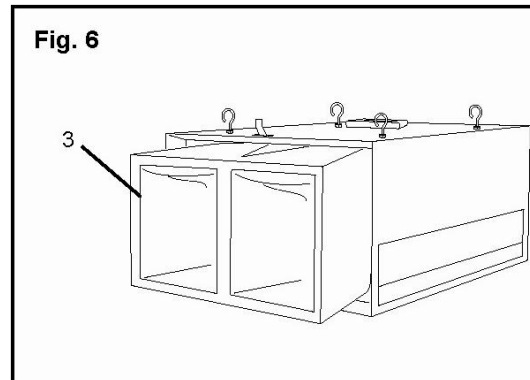
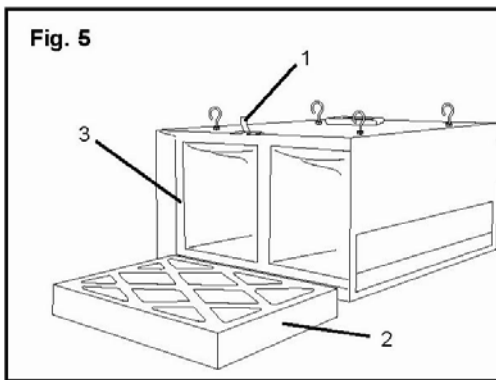


**WARNING:** To reduce the risk of injury, unplug the air filter from the power source before changing the filters or servicing the air filter.

### **Change the filters (Fig. 5 and 6)**

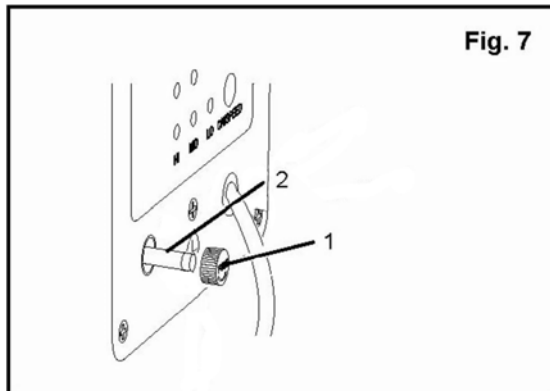
Check the inner and outer filters periodically, depending on the amount of use, and change the filters when needed. Clogged filters will reduce the amount of air circulating through the filter.

1. Lift up the clips (1) and remove the outer filter (2) from the cabinet housing.
2. Pull the inner filter (3) out of the cabinet.
3. Install a new inner filter.
4. Install a new outer filter. The arrow on the outside of the filter indicates the proper direction to insert the filter into the cabinet.



### **Check and replace the fuse (Fig. 7)**

1. Turn the fuse cap (1) counterclockwise to loosen and pull the fuse away from the control panel.
2. Insert a new fuse (2amps) (2) in the fuse cap and put it into the control panel.

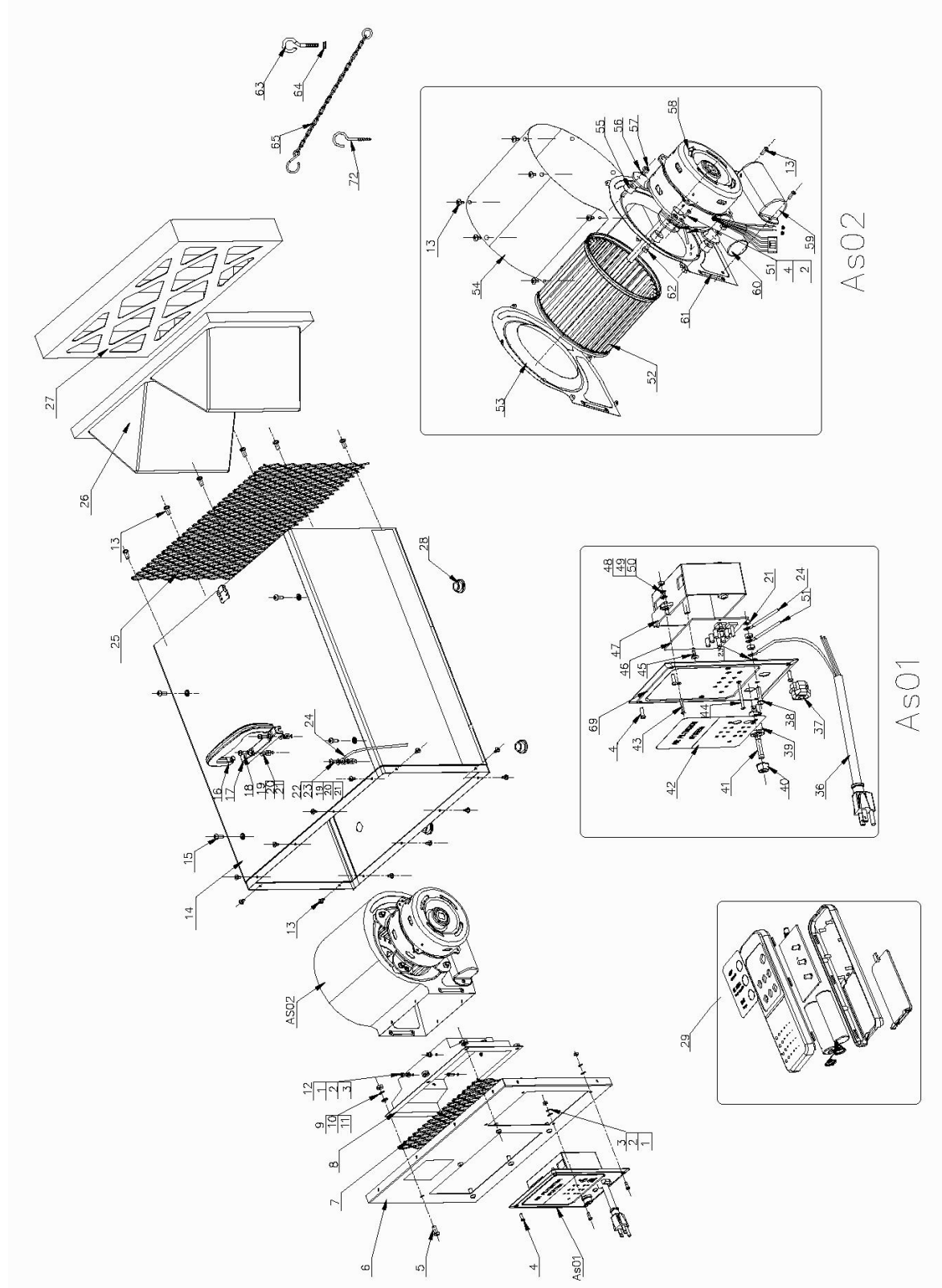


## **Maintenance (continued)**

### **Replace the batteries in the remote control**

1. Open the battery compartment on the remote control.
2. Remove the old batteries.
3. Install 2 new "AA" batteries according to the picture shown in the battery compartment.

## Exploded view and parts list



## **Exploded view and parts list (continued)**

Item#	Part #	Description	Qty
1	90243-001	Hex Nut 4	13
2	90243-002	Flat Washer 4	13
3	90243-003	Lock Washer 4	13
4	90243-004	Screw M4X12	5
5	90243-005	Screw M6X16	6
6	90243-006	Air Box Front Cover	1
7	90243-007	Grid Plate	1
8	90243-008	Air Guide	1
9	90243-009	Hex Nut 6	6
10	90243-010	Flat Washer 6	6
11	90243-011	Lock Washer 6	6
12	90243-012	Screw M4X12	8
13	90243-013	Screw ST4X10	34
14	90243-014	Air Box	1
15	90243-015	Screw M6X12	4
16	90243-016	Carrying Handle	1
17	90243-017	Handle Bracket	1
18	90243-018	Screw M5X16	2
19	90243-019	Flat Washer 5	3
20	90243-020	Lock Washer 5	3
21	90243-021	Hex Nut 5	6
22	90243-022	Screw M5X12	1
23	90243-023	Lock Washer 5	2
24	90243-024	Wire	1
25	90243-025	Grid Plate	1
26	90243-026	Inner Filter	1
27	90243-027	Outer Filter	1
28	90243-028	Rubber Foot	4
29	90243-029	Remote Control Unit	1
As01	90243-AS01	Control Panel Assembly	1
36	90243-036	Power Cord	1
37	90243-037	Strain Relief	1
38	90243-038	Screw M5X20	1

Item#	Part #	Description	Qty
39	90243-039	Fuse Holder	1
40	90243-040	Fuse Cap	1
41	90243-041	Fuse (2A)	1
42	90243-042	Control Panel Label	1
43	90243-043	Screw M3X15	1
44	90243-044	Screw M3X30	1
45	90243-045	Screw ST3.2X8	1
46	90243-046	Printed Circuit Board	1
47	90243-047	Switch Box	1
48	90243-048	Flat Washer 3	2
49	90243-049	Lock Washer 3	2
50	90243-050	Hex Nut 3	2
51	90243-051	Wire	1
As02	90243-AS02	Motor & Fan Assembly	1
52	90243-052	Fan Wheel	1
53	90243-053	Fan Housing Cover	1
54	90243-054	Fan Housing	1
55	90243-055	Rubber Spacer	4
56	90243-056	Large Washer 5	4
57	90243-057	Lock Nut 5	4
58	90243-058	Motor	1
59	90243-059	Capacitor Cover	1
60	90243-060	Capacitor	1
61	90243-061	Fan Housing Cover	1
62	90243-062	Screw M5X25	4
63	90243-063	Hanger	4
64	90243-064	Flange Nut 6	4
65	90243-065	Chain	4
69	90243-069	Switch Box Cover	1
72	90243-072	Wood Screw Hook	4

## **Warranty**

### **WEN® AIR FILTRATION SYSTEM WARRANTY**

WEN Products is committed to build tools that are dependable for years. Our warranties are consistent with this commitment and our dedication to quality.

#### **LIMITED WARRANTY OF WEN CONSUMER POWER TOOLS PRODUCTS FOR HOME USE**

GREAT LAKES TECHNOLOGIES, LLC ("Seller") warrants to the original purchaser only, that all WEN consumer power tools will be free from defects in material or workmanship for a period of two (2) years from date of purchase. Ninety days for all WEN products, if the tool is used for professional use.

SELLER'S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY under this Limited Warranty and, to the extent permitted by law, any warranty or condition implied by law, shall be the repair or replacement of parts, without charge, which are defective in material or workmanship and which have not been misused, carelessly handled, or misrepaired by persons other than Seller or Authorized Service Center. To make a claim under this Limited Warranty, please contact us at 1-800-232-1195.. To acquire service, you will have to provide proof of purchase and may be asked to ship the tool back to us freight prepaid.

THIS LIMITED WARRANTY DOES NOT APPLY TO ACCESSORY ITEMS SUCH AS CIRCULAR SAW BLADES, DRILL BITS, ROUTER BITS, JIGSAW BLADES, SANDING BELTS, GRINDING WHEELS AND OTHER RELATED ITEMS.

ANY IMPLIED WARRANTIES SHALL BE LIMITED IN DURATION TO ONE (1) YEAR FROM DATE OF PURCHASE. SOME STATES IN THE U.S., SOME CANADIAN PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

IN NO EVENT SHALL SELLER BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING BUT NOT LIMITED TO LIABILITY FOR LOSS OF PROFITS) ARISING FROM THE SALE OR USE OF THIS PRODUCT. SOME STATES IN THE U.S. AND SOME CANADIAN PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE IN THE U.S., PROVINCE TO PROVINCE IN CANADA AND FROM COUNTRY TO COUNTRY.

THIS LIMITED WARRANTY APPLIES ONLY TO PORTABLE ELECTRIC TOOLS, BENCH POWER TOOLS, OUTDOOR POWER EQUIPMENT AND PNUMATIC TOOLS SOLD WITHIN THE UNITED STATES OF AMERICA, CANADA AND THE COMMONWEALTH OF PUERTO RICO. FOR WARRANTY COVERAGE WITHIN OTHER COUNTRIES, CONTACT THE WEN CUSTOMER SUPPORT.



**SAVE YOUR RECEIPTS. THIS WARRANTY IS VOID WITHOUT THEM.**